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## PATENT ABSTRACTS OF JAPAN

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(21) Application number:	02226016	(71) Applicant:	MITSUBISHI MOTORS CORP
(22) Date of filing:	27.08.1990	(72) Inventor:	HASHIMOTO TORU

### (54) VARIABLE INTAKE DEVICE FOR CAR

#### (57) Abstract:

**PURPOSE:** To improve transient response at acceleration by positioning a throttle valve whose opening degree is set according to a step-down amount of an accelerator pedal close to an intake port against an intake control valve in a longer passage of intake passages different in length.

**CONSTITUTION:** An intake passage 4 connected to, for example, an intake port 1B which communicates to a combustion chamber 1A of an engine body 1 for V-type six cylinders is provided with an air cleaner 7, a variable intake device 8 and a fuel injection device 9 from the upstream along the intake direction, and the variable intake device 8 is provided with a first passage 8B which is thick and short in the passage length and a second passage 8D which is thin and long in the passage length are combined in parallel between an outlet of a surge tank 8A and the intake port 1B. Here, an intake control valve 10 driven by a stepping motor and so

on is arranged in the first passage. And between the control valve 10 and the intake port 1B on the downstream side of the variable intake device 8 in the intake direction, throttle valves 11 are arranged to the number of cylinders whose opening degree is set according to a step-down amount of an accelerator pedal.

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